



SECTION ONE: TEST SPECIMEN DESCRIPTION

REPORT NUMBER: ETC-94-127-1392

TEST START DATE: 05/23/94  
 TEST FINISH DATE: 05/24/94  
 REPORT DATE: 05/25/94  
 EXPIRATION DATE: 05/25/98

| TYPE                         | SIZE                       | QTY    | MATERIAL*       | LOCATION                                 | CORNERS/JOINTS                   | FINISH | COLOR | COMMENTS                                 |
|------------------------------|----------------------------|--------|-----------------|--|----------------------------------|--------|-------|--|
| 1. FRAME                     |                            |        |                 |  |                                  |        |       |  |
| Door, X                      | 3'4" x 7'2" x 5-3/4"       |        | Steel           |  | Mitered with slot & tab assembly | Paint  | Gray  | (16 gauge) Tab through slot & bent over  |
| 2. PANEL                     |                            |        |                 |  |                                  |        |       |  |
| Single Swing                 | 2'11-5/8" x 6'11" x 1-3/4" | 1      | Steel           |  |                                  | Paint  | Gray  | Hollow                                   |
| A. REINFORCEMENT             |                            |        |                 |  |                                  |        |       |  |
| Rib                          |                            |        | Steel           | Within panel                             |                                  |        |       |  |
| 3. HARDWARE                  |                            |        |                 |  |                                  |        |       |  |
| A. LOCK                      |                            |        |                 |  |                                  |        |       |  |
| 0.420" Engagement            |                            | 1      | Stainless Steel | 40 5/16" up from sill                    |                                  |        |       |  |
| B. STRIKE PLATE              |                            |        |                 |  |                                  |        |       |  |
| 0.075" Thick                 |                            | 1      | Stainless Steel | 40 5/16" up from sill                    |                                  |        |       |  |
| C. HANDLE ASSEMBLY           |                            |        |                 |  |                                  |        |       |  |
| Locking with key             |                            | 1      | Stainless Steel | 40 5/16" up from sill                    |                                  |        |       |  |
| D. HINGES                    |                            |        |                 |  |                                  |        |       |  |
| 4-1/2" x 4-1/2" x 1/8" Thick |                            | 3      | Stainless Steel | 8 1/2", 40 7/16", & 72 3/8" up from sill |                                  |        |       | Hager                                    |
| E. ANCHOR CLIPS              |                            |        |                 |  |                                  |        |       |  |
| 0.045" Thick                 |                            | 3/Jamb | Steel           | Hinge locations/both jambs               |                                  |        |       | P/N 30-12304                             |
| 4. ANCHORAGE                 |                            |        |                 |  |                                  |        |       |  |
| 2" Long DWS                  |                            | 4/Clip |                 | Interior & Exterior                      |                                  |        |       | Anchor tabs bent over & screwed to studs |
| A. FRAMING                   |                            |        |                 |  |                                  |        |       |  |
| Wood wall construction       |                            | 6      | Wood            | Head & jambs                             |                                  |        |       |  |
| 2" x 4"                      |                            | 1      | Wood            | Sill                                     |                                  |        |       |  |
| 2" x 6"                      |                            |        |                 |  |                                  |        |       |  |

\* Manufacturer stated design; items not verified by ETC Laboratories.

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## SECTION TWO: TEST RESULTS

**SPECIFICATION:** The test specimen was evaluated in accordance with ANSI/NAAMM HMMA 863-90, "Guide Specifications For Detention Security Hollow Metal Doors and Frames"; Section 1.06 C only.


**TEST METHOD:** The test frame was mounted, using typical wood wall construction, and impacted in the direction that would tend to close the door. This was done for the purpose of testing the frame installation and not the system's hardware. (For specific details regarding individual frame installation reference the product description.) The test sequence (order of impacts to the system) is as follows: 1.) 100 of a required total of 400 impacts to the bolt. 2.) 2 sequences of 25 of a required total of 150 impacts per hinge totaling 50 per hinge. Sequence starts at procedure 1.) and repeats until impacts required are completed or there is a FRAME failure.


| <u>PARAGRAPH</u> | <u>TITLE OF TEST</u>      | <u>RESULTS/REQUIREMENTS</u> |
|------------------|---------------------------|-----------------------------|
| 1.06             | Testing and Performance   |                             |
|                  | C. Impact Load Test       |                             |
|                  | 4.a. Bolt Impacts         | 100 / 400                   |
|                  | 4.b. Upper Hinge Impacts  | 25 / 150                    |
|                  | 4.b. Center Hinge Impacts | 25 / 150                    |
|                  | 4.b. Lower Hinge Impacts  | 4* <sup>1</sup> / 150       |

\*<sup>1</sup> **Failed** The frame/sill anchor seperated from the sill and the lower hinge anchor pulled from the door frame causing the bottom hinge corner of the panel to be driven beyond the frame stop, resulting in a failure.

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